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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,738	03/16/2004	James F. Salzman	TI-36932 (032350.B590)	1843
23494	7590	12/06/2005	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265			PHAM, HOAI V	
			ART UNIT	PAPER NUMBER
			2814	

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

EL

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/801,738	SALZMAN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Hoai v. Pham	2814	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 16 March 2004.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3/16/04; 8/10/05.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 6-14 and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Toyoda et al. [US 2003/0030155A1].

With respect to claims 1, 11 and 20, Toyoda et al. (fig. 1, cols. 3-4) discloses an integrated circuit structure (10), comprising:

forming one or more integrated circuit elements (14) operable to generate an electromagnetic field when an electric current is applied to the integrated circuit element;

forming an encapsulating compound (16) substantially surrounding the one or more integrated circuit elements, the encapsulating compound comprising:

a packaging material; and

an electromagnetic field-attenuating material operable to attenuate the electromagnetic field emitted by one or more of the integrated circuit elements, the electromagnetic field-attenuating material disposed within at least a portion of the packaging material (see col. 4, pp [0057]).

With respect to claims 2 and 12, Toyoda et al. (fig. 1) discloses that one or more of the integrated circuit elements (14) comprise a conductive connector coupling portions of the integrated circuit structure.

With respect to claims 3 and 13, Toyoda et al. (fig. 1) discloses that the conductive connector comprises a bond wire.

With respect to claims 4 and 14, Toyoda et al. (fig. 1) discloses at least two conductive connectors, the electromagnetic field-attenuating material of the encapsulating compound (16) operable to attenuate electromagnetic coupling of the conductive connectors.

With respect to claims 6-7 and 16-17, Toyoda et al. (fig. 1, col. 4, pp [0057]) discloses that the electromagnetic field-attenuating material (16, a ferrite material) is operable to attenuate an electromagnetic field emitted outside the structure by the one or more integrated circuit elements.

With respect to claims 8-9 and 18-19, Toyoda et al. (fig. 1) discloses that the electromagnetic field-attenuating material (16) (col. 4, pp [0057]) comprises a plurality of electromagnetic field-attenuating particles mixed into at least a portion of the packaging material (phenolic resin) (col. 2, pp [0020]) of the encapsulating compound, one or more

of the plurality of the particles operable to attenuate electromagnetic interference by attenuating electromagnetic fields.

With respect to claim 10, Toyoda et al. (fig. 1) discloses the packaging material comprises plastic (phenolic resin) (col. 2, pp [0020]).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 5 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toyoda et al. [US 2003/0030155A1] in view of Freyman et al. [U.S. Pat. 5,646,451].

Toyoda et al. substantially discloses all the limitations as claimed above except a first integrated circuit element comprises a first trace operable to carry an electrical signal within the structure; a second integrated circuit element comprises a second trace operable to carry an electrical signal within the structure. However, Freyman et al. discloses the chip (16) includes first and second circuit (see col. 2, lines 62-67 and col. 3, lines 1-5). Therefore, it would have been obvious to one ordinary skill in the art to have first and second circuit in the chip as taught by Freyman et al. into the device of Toyoda et al. in order to perform appropriate functions in the semiconductor packaging device.

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoai v. Pham whose telephone number is 571-272-1715. The examiner can normally be reached on M-F.
7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M. Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



HOAI PHAM  
PRIMARY EXAMINER